## Montana Board of Oil and Gas Conservation Environmental Assessment

**Operator:** MRC LLC Well Name/Number: State 16X-12 Location: SE SE Section 12 T37N R4E County: Liberty, MT; Field (or Wildcat) Whitlash Field **Air Quality** (possible concerns) Long drilling time: No, 5 to 6 days drilling time. Unusually deep drilling (high horsepower rig): No, 3400' TD vertical well. Possible H2S gas production: No, Rierdon Formation test, no H2S anticipated. In/near Class I air quality area: No, Class I air quality in the area of review. Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required under 75-2-211. Mitigation: X Air quality permit (AQB review) \_\_ Gas plants/pipelines available for sour das Special equipment/procedures requirements Other: Comments: No special concerns – using small rig to drill 3400' TD vertical well. **Water Quality** (possible concerns) Salt/oil based mud: No, freshwater, freshwater mud system High water table: No high water table anticipated in the area of review. Surface drainage leads to live water: No, nearest drainages are an unnamed ephemeral tributary to Police Creek, about 1/8 of a mile to the south and an unnamed ephemeral tributary to Police Creek about 3/8 of a mile to the northwest from this location. Water well contamination: No, closest water wells are about ¾ of a mile to the northwest and north northwest and about 1 mile to the north northeast from this location. Depth of these water wells range from 65' to 438'. Water wells are sufficiently distant to not be contaminated. Also, this well will have surface hole drilled to 350' with freshwater and steel surface casing cemented to surface from 350'. Porous/permeable soils: No, sandy bentonitic soils. Class I stream drainage: No Mitigation: Lined reserve pit X Adequate surface casing \_\_\_ Berms/dykes, re-routed drainage Closed mud system Off-site disposal of solids/liquids (in approved facility) Other: Comments: 350' of surface casing cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems to be used.

Soils/Vegetation/Land Use

(possible concerns)

Steam crossings: No, stream crossings, will be crossing only ephemeral drainages.
High erosion potential: No, small cut, up to 8.9' and small fill, up to 4.6', required.
Loss of soil productivity: No, location will be restored after drilling, if nonproductive. If
productive unused portion of drillsite will be reclaimed.
Unusually large wellsite: No, 125'X238' location size required.
Damage to improvements: Slight, surface use is grassland.
Conflict with existing land use/values: Slight
Mitigation
Avoid improvements (topographic tolerance)
Exception location requested
X Stockpile topsoil
Stream Crossing Permit (other agency review)
X Reclaim unused part of wellsite if productive
Special construction methods to enhance reclamation
Other
Comments: Access will utilize existing county road, Flat Coulee Road. About 7/8 of
a mile of new access road will be built into this location. Cuttings will be buried in the
reserve pit. Fluids will be allowed to evaporate and then the pit will be backfilled. No
special concerns.
Hoolth Hozorda/Noice
Health Hazards/Noise
(possible concerns)
Proximity to public facilities/residences: Bingham Ranch is about 1 mile to the north
northeast and the Shafer Ranch is about 7/8 of a mile to the southwest from this
location.
Possibility of H2S: None anticipated.
Size of rig/length of drilling time: Small drilling rig/short 5 to 6 days drilling time.
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Mitigation:
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Other agency review (DFWP, federal agencies, DSL) Screening/fencing of pits, drillsite Other: Comments: Surface use is a private grassland. There maybe species of concern that maybe impacted by this wellsite. We ask the operator to consult with the surface owner as to what he would like done, if a species of concern is discovered at this
location. The Board of Oil & Gas has no jurisdiction over private surface lands.
Historical/Cultural/Paleontological
(possible concerns)
Proximity to known sites: None identified  Mitigation
avoidance (topographic tolerance, location exception)
other agency review (SHPO, DSL, federal agencies) Other:
Comments: Surface use is a private grassland. There maybe possible
historical/cultural/paleontological sites that maybe impacted by this wellsite. We ask the
operator to consult with the surface owner as to his desires to preserve these sites or not, if they are found during construction of the wellsite. The Board of Oil & Gas has no
jurisdiction over private surface lands.
Social/Economic
(possible concerns) Substantial effect on tax base
Create demand for new governmental services
Population increase or relocation Comments: Well is a development well in the Whitlash East (State) Swift Sand
Unit. No concerns.
Remarks or Special Concerns for this site
•
Well is 3400' TD, Rierdon Formation vertical well test.

**Summary: Evaluation of Impacts and Cumulative effects** 

No long term impacts expected. Some short term impacts will occur.

I conclude that the approval of the subject Notice of Intent to Drill (does/<u>does not</u>) constitute a major action of state government significantly affecting the quality of the human environment, and (does/<u>does not</u>) require the preparation of an environmental impact statement.

Prepared by (BOGC): <u>Steven Sasaki</u> (title:) <u>Chief Field Inspector</u>

Other Persons Contacted:

<u>Montana Bureau of Mines and Geology, GWIC website</u>
(Name and Agency)

<u>Liberty County water wells</u>

(subject discussed)
June 25, 2012

Date: June 25, 2012

(date)

US Fish and Wildlife, Region 6 website

(Name and Agency)

ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES MONTANA

COUNTIES, Liberty County

(subject discussed)

June 25, 2012

(date)

Montana Natural Heritage Program Website (FWP)

(Name and Agency)

Heritage State Rank= S1, S2, S3, T37N R4E

(subject discussed)

June 25, 2012

(date)

If location was inspected before permit approval:	
Inspection date:	
Inspector:	
Others present during inspection:	